

Luis Norberto LÃ³pez de Lacalle

List of Publications by Year in descending order

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331
papers

11,086
citations

19636

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338
all docs

338
docs citations

338
times ranked

5560
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryogenic and minimum quantity lubrication for an eco-efficiency turning of AISI 304. Journal of Cleaner Production, 2016, 139, 440-449.	4.6	238
2	Stability limits of milling considering the flexibility of the workpiece and the machine. International Journal of Machine Tools and Manufacture, 2005, 45, 1669-1680.	6.2	226
3	Laser polishing of parts built up by selective laser sintering. International Journal of Machine Tools and Manufacture, 2007, 47, 2040-2050.	6.2	224
4	Surface improvement of shafts by the deep ball-burnishing technique. Surface and Coatings Technology, 2012, 206, 2817-2824.	2.2	192
5	Advanced cutting conditions for the milling of aeronautical alloys. Journal of Materials Processing Technology, 2000, 100, 1-11.	3.1	187
6	Experimental and numerical investigation of the effect of spray cutting fluids in high speed milling. Journal of Materials Processing Technology, 2006, 172, 11-15.	3.1	184
7	Analysis of ultrasonic-assisted drilling of Ti6Al4V. International Journal of Machine Tools and Manufacture, 2009, 49, 500-508.	6.2	184
8	Cutting force estimation in sculptured surface milling. International Journal of Machine Tools and Manufacture, 2004, 44, 1511-1526.	6.2	155
9	Tool wear on nickel alloys with different coolant pressures: Comparison of Alloy 718 and Waspaloy. Journal of Manufacturing Processes, 2017, 26, 44-56.	2.8	155
10	Toolpath selection based on the minimum deflection cutting forces in the programming of complex surfaces milling. International Journal of Machine Tools and Manufacture, 2007, 47, 388-400.	6.2	133
11	Influence of low-plasticity ball burnishing on the high-cycle fatigue strength of medium carbon AISI 1045 steel. International Journal of Fatigue, 2013, 55, 230-244.	2.8	130
12	Laser polishing of tool steel with CO2 laser and high-power diode laser. International Journal of Machine Tools and Manufacture, 2010, 50, 115-125.	6.2	127
13	Numerical simulation and experimental validation of powder flux distribution in coaxial laser cladding. Journal of Materials Processing Technology, 2010, 210, 2125-2134.	3.1	127
14	An experimental investigation of the effect of coatings and cutting parameters on the dry drilling performance of aluminium alloys. International Journal of Advanced Manufacturing Technology, 2006, 28, 1-11.	1.5	119
15	Chatter avoidance in the milling of thin floors with bull-nose end mills: Model and stability diagrams. International Journal of Machine Tools and Manufacture, 2011, 51, 43-53.	6.2	116
16	Sustainability analysis of lubricant oils for minimum quantity lubrication based on their tribo-rheological performance. Journal of Cleaner Production, 2017, 164, 1419-1429.	4.6	111
17	Modelling of energy attenuation due to powder flow-laser beam interaction during laser cladding process. Journal of Materials Processing Technology, 2012, 212, 516-522.	3.1	106
18	Evaluation of the stiffness chain on the deflection of end-mills under cutting forces. International Journal of Machine Tools and Manufacture, 2005, 45, 727-739.	6.2	105

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19	Model for surface topography prediction in peripheral milling considering tool vibration. CIRP Annals - Manufacturing Technology, 2009, 58, 93-96.	1.7	105
20	Plasma Assisted Milling of Heat-Resistant Superalloys. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2004, 126, 274-285.	1.3	100
21	Effects of Ultrasonics-Assisted Face Milling on Surface Integrity and Fatigue Life of Ni-Alloy 718. Journal of Materials Engineering and Performance, 2016, 25, 5076-5086.	1.2	100
22	CO2 cryogenic milling of Inconel 718: cutting forces and tool wear. Journal of Materials Research and Technology, 2020, 9, 8459-8468.	2.6	100
23	On the relationship between cutting forces and anisotropy features in the milling of LPBF Inconel 718 for near net shape parts. International Journal of Machine Tools and Manufacture, 2021, 170, 103801.	6.2	99
24	The milling of airframe components with low rigidity: A general approach to avoid static and dynamic problems. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2005, 219, 789-801.	1.5	98
25	Effect of process parameter on the kerf geometry in abrasive water jet milling. International Journal of Advanced Manufacturing Technology, 2010, 51, 467-480.	1.5	98
26	Nozzle design for combined use of MQL and cryogenic gas in machining. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 87-95.	2.7	97
27	Using High Pressure Coolant in the Drilling and Turning of Low Machinability Alloys. International Journal of Advanced Manufacturing Technology, 2000, 16, 85-91.	1.5	95
28	Enhanced Performance of Nanostructured Coatings for Drilling by Droplet Elimination. Materials and Manufacturing Processes, 2016, 31, 593-602.	2.7	94
29	Design and Test of a Multitooth Tool for CFRP Milling. Journal of Composite Materials, 2009, 43, 3275-3290.	1.2	91
30	Highly accurate 5-axis flank CNC machining with conical tools. International Journal of Advanced Manufacturing Technology, 2018, 97, 1605-1615.	1.5	89
31	Quality improvement of ball-end milled sculptured surfaces by ball burnishing. International Journal of Machine Tools and Manufacture, 2005, 45, 1659-1668.	6.2	88
32	On the influence of cutting speed limitation on the accuracy of wire-EDM corner-cutting. Journal of Materials Processing Technology, 2007, 182, 574-579.	3.1	86
33	An integrated process-machine approach for designing productive and lightweight milling machines. International Journal of Machine Tools and Manufacture, 2011, 51, 591-604.	6.2	85
34	Using artificial neural networks for the prediction of dimensional error on inclined surfaces manufactured by ball-end milling. International Journal of Advanced Manufacturing Technology, 2016, 83, 847-859.	1.5	84
35	Five-Axis Machining and Burnishing of Complex Parts for the Improvement of Surface Roughness. Materials and Manufacturing Processes, 2011, 26, 997-1003.	2.7	81
36	Improvement of strategies and parameters for multi-axis laser cladding operations. Optics and Lasers in Engineering, 2014, 56, 113-120.	2.0	81

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37	The Use of Hybrid CO ₂ +MQL in Machining Operations. <i>Procedia Engineering</i> , 2015, 132, 492-499.	1.2	81
38	Detecting the key geometrical features and grades of carbide inserts for the turning of nickel-based alloys concerning surface integrity. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 3725-3742.	1.1	81
39	The Denavit and Hartenberg approach applied to evaluate the consequences in the tool tip position of geometrical errors in five-axis milling centres. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 37, 122-139.	1.5	80
40	Effects of tool deflection in the high-speed milling of inclined surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 24, 621-631.	1.5	79
41	Model development for the prediction of surface topography generated by ball-end mills taking into account the tool parallel axis offset. <i>Experimental validation. CIRP Annals - Manufacturing Technology</i> , 2008, 57, 101-104.	1.7	79
42	Multi-Response Optimization of WEDM Process Parameters for Machining of Superelastic Nitinol Shape-Memory Alloy Using a Heat-Transfer Search Algorithm. <i>Materials</i> , 2019, 12, 1277.	1.3	79
43	Effect of very high cutting speeds on shearing, cutting forces and roughness in dry turning of austenitic stainless steels. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 57, 61-71.	1.5	78
44	Error budget and stiffness chain assessment in a micromilling machine equipped with tools less than 0.3mm in diameter. <i>Precision Engineering</i> , 2007, 31, 1-12.	1.8	77
45	CALCULATION OF THE SPECIFIC CUTTING COEFFICIENTS AND GEOMETRICAL ASPECTS IN SCULPTURED SURFACE MACHINING. <i>Machining Science and Technology</i> , 2005, 9, 411-436.	1.4	76
46	Characterization and stability analysis of a multivariable milling tool by the enhanced multistage homotopy perturbation method. <i>International Journal of Machine Tools and Manufacture</i> , 2012, 57, 27-33.	6.2	76
47	Alternatives for Specimen Manufacturing in Tensile Testing of Steel Plates. <i>Experimental Techniques</i> , 2016, 40, 1555-1565.	0.9	76
48	The effect of ball burnishing on heat-treated steel and Inconel 718 milled surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 32, 958-968.	1.5	74
49	Preventing chatter vibrations in heavy-duty turning operations in large horizontal lathes. <i>Journal of Sound and Vibration</i> , 2015, 340, 317-330.	2.1	74
50	Combination of friction drilling and form tapping processes on dissimilar materials for making nutless joints. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 1007-1020.	1.5	73
51	Analysis of the regimes in the scanner-based laser hardening process. <i>Optics and Lasers in Engineering</i> , 2017, 90, 72-80.	2.0	72
52	Effects of high-pressure cooling on the wear patterns on turning inserts used on alloy IN718. <i>Materials and Manufacturing Processes</i> , 2017, 32, 678-686.	2.7	72
53	Smart optimization of a friction-drilling process based on boosting ensembles. <i>Journal of Manufacturing Systems</i> , 2018, 48, 108-121.	7.6	70
54	Surface Analysis of Wire-Electrical-Discharge-Machining-Processed Shape-Memory Alloys. <i>Materials</i> , 2020, 13, 530.	1.3	69

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55	Feed rate calculation algorithm for the homogeneous material deposition of blisk blades by 5-axis laser cladding. International Journal of Advanced Manufacturing Technology, 2014, 74, 1219-1228.	1.5	68
56	Selection of cutting conditions for a stable milling of flexible parts with bull-nose end mills. Journal of Materials Processing Technology, 2007, 191, 279-282.	3.1	67
57	Behaviour of PVD Coatings in the Turning of Austenitic Stainless Steels. Procedia Engineering, 2013, 63, 133-141.	1.2	67
58	CO2 laser cutting of advanced high strength steels (AHSS). Applied Surface Science, 2005, 242, 362-368.	3.1	66
59	An automatic spindle speed selection strategy to obtain stability in high-speed milling. International Journal of Machine Tools and Manufacture, 2009, 49, 384-394.	6.2	66
60	Prediction of specific force coefficients from a FEM cutting model. International Journal of Advanced Manufacturing Technology, 2009, 43, 348-356.	1.5	66
61	HOLE MAKING USING BALL HELICAL MILLING ON TITANIUM ALLOYS. Machining Science and Technology, 2012, 16, 173-188.	1.4	66
62	Roughness prediction on laser polished surfaces. Journal of Materials Processing Technology, 2012, 212, 1305-1313.	3.1	64
63	Super Abrasive Machining of Integral Rotary Components Using Grinding Flank Tools. Metals, 2018, 8, 24.	1.0	64
64	Stability prediction in straight turning of a flexible workpiece by collocation method. International Journal of Machine Tools and Manufacture, 2012, 54-55, 73-81.	6.2	63
65	Development of Optimum Electrodischarge Machining Technology for Advanced Ceramics. International Journal of Advanced Manufacturing Technology, 2001, 18, 897-905.	1.5	62
66	Improving the high-speed finishing of forming tools for advanced high-strength steels (AHSS). International Journal of Advanced Manufacturing Technology, 2006, 29, 49-63.	1.5	62
67	Improving the surface finish in high speed milling of stamping dies. Journal of Materials Processing Technology, 2002, 123, 292-302.	3.1	61
68	Thin-Wall Machining of Light Alloys: A Review of Models and Industrial Approaches. Materials, 2019, 12, 2012.	1.3	61
69	Behavior of austenitic stainless steels at high speed turning using specific force coefficients. International Journal of Advanced Manufacturing Technology, 2012, 62, 505-515.	1.5	60
70	Recording of real cutting forces along the milling of complex parts. Mechatronics, 2006, 16, 21-32.	2.0	59
71	Surface integrity and fatigue of non-conventional machined Alloy 718. Journal of Manufacturing Processes, 2019, 48, 44-50.	2.8	59
72	Modelling of surface roughness in inclined milling operations with circle-segment end mills. Simulation Modelling Practice and Theory, 2018, 84, 161-176.	2.2	56

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73	Mechanistic modelling of the micro end milling operation. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2008, 222, 23-33.	1.5	55
74	Drilling of CFRP-Ti6Al4V stacks using CO2-cryogenic cooling. Journal of Manufacturing Processes, 2021, 64, 58-66.	2.8	55
75	Tool wear detection in dry high-speed milling based upon the analysis of machine internal signals. Mechatronics, 2008, 18, 627-633.	2.0	54
76	Propagation of assembly errors in multitasking machines by the homogenous matrix method. International Journal of Advanced Manufacturing Technology, 2013, 68, 149-164.	1.5	54
77	Joining metrics enhancement when combining FSW and ball-burnishing in a 2050 aluminium alloy. Surface and Coatings Technology, 2019, 367, 327-335.	2.2	54
78	Computer simulation of wire-EDM taper-cutting. International Journal of Computer Integrated Manufacturing, 2006, 19, 727-735.	2.9	53
79	Methodology for the design of a thermal distortion compensation for large machine tools based in state-space representation with Kalman filter. International Journal of Machine Tools and Manufacture, 2013, 75, 100-108.	6.2	53
80	Effect of WEDM Process Parameters on Surface Morphology of Nitinol Shape Memory Alloy. Materials, 2020, 13, 4943.	1.3	53
81	Ultrasonic Assisted Turning of mild steels. International Journal of Materials and Product Technology, 2010, 37, 60.	0.1	52
82	Milling of gamma titanium-aluminum alloys. International Journal of Advanced Manufacturing Technology, 2012, 62, 83-88.	1.5	52
83	A sustainable process for material removal on pure copper by use of extremophile bacteria. Journal of Cleaner Production, 2014, 84, 752-760.	4.6	52
84	Internal cryolubrication approach for Inconel 718 milling. Procedia Manufacturing, 2017, 13, 89-93.	1.9	52
85	Process planning for reliable high-speed machining of moulds. International Journal of Production Research, 2002, 40, 2789-2809.	4.9	51
86	Cutting conditions and tool optimization in the high-speed milling of aluminium alloys. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2001, 215, 1257-1269.	1.5	49
87	Isotropic finishing of austempered iron casting cylindrical parts by roller burnishing. International Journal of Advanced Manufacturing Technology, 2020, 110, 753-761.	1.5	49
88	Monitoring of drilling for burr detection using spindle torque. International Journal of Machine Tools and Manufacture, 2005, 45, 1614-1621.	6.2	48
89	Spindle speed variation technique in turning operations: Modeling and real implementation. Journal of Sound and Vibration, 2016, 383, 384-396.	2.1	48
90	An investigation of cutting forces and tool wear in turning of Haynes 282. Journal of Manufacturing Processes, 2019, 37, 529-540.	2.8	48

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91	Combination of high feed turning with cryogenic cooling on Haynes 263 and Inconel 718 superalloys. <i>Journal of Manufacturing Processes</i> , 2020, 58, 208-222.	2.8	48
92	A computer-aided system for the optimization of the accuracy of the wire electro-discharge machining process. <i>International Journal of Computer Integrated Manufacturing</i> , 2004, 17, 413-420.	2.9	47
93	Toolpath dependent stability lobes for the milling of thin-walled parts. <i>International Journal of Machining and Machinability of Materials</i> , 2008, 4, 377.	0.1	47
94	A method for thermal characterization and modeling of large gantry-type machine tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 62, 875-886.	1.5	47
95	Seals Based on Magnetic Fluids for High Precision Spindles of Machine Tools. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 495-503.	1.1	46
96	Stiffening near-net-shape functional parts of Inconel 718 LPBF considering material anisotropy and subsequent machining issues. <i>Mechanical Systems and Signal Processing</i> , 2022, 168, 108675.	4.4	46
97	Simultaneous Measurement of Forces and Machine Tool Position for Diagnostic of Machining Tests. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2005, 54, 2329-2335.	2.4	45
98	Analysis of the tool tip radial stiffness of turn-milling centers. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 60, 883-891.	1.5	44
99	Prediction of press/die deformation for an accurate manufacturing of drawing dies. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 37, 649-656.	1.5	39
100	Determination of the stability lobes in milling operations based on homotopy and simulated annealing techniques. <i>Mechatronics</i> , 2014, 24, 177-185.	2.0	39
101	Five-Axis Milling of Large Spiral Bevel Gears: Toolpath Definition, Finishing, and Shape Errors. <i>Metals</i> , 2018, 8, 353.	1.0	39
102	5-axis double-flank CNC machining of spiral bevel gears via custom-shaped milling tools – Part I: Modeling and simulation. <i>Precision Engineering</i> , 2020, 62, 204-212.	1.8	39
103	Solid subtraction model for the surface topography prediction in flank milling of thin-walled integral blade rotors (IBRs). <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 741-752.	1.5	38
104	Actively lubricated hybrid journal bearings based on magnetic fluids for high-precision spindles of machine tools. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 2257-2271.	1.4	38
105	A Methodology to Evaluate the Reliability Impact of the Replacement of Welded Components by Additive Manufacturing Spare Parts. <i>Metals</i> , 2019, 9, 932.	1.0	38
106	Burnishing of FSW Aluminum Al–Cu–Li Components. <i>Metals</i> , 2019, 9, 260.	1.0	37
107	Regenerative vibration avoidance due to tool tangential dynamics in interrupted turning operations. <i>Journal of Sound and Vibration</i> , 2014, 333, 3996-4006.	2.1	36
108	Numerical simulation of milling forces with barrel-shaped tools considering runout and tool inclination angles. <i>Applied Mathematical Modelling</i> , 2017, 47, 619-636.	2.2	35

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109	Effect of mechanical pre-treatments in the behaviour of nanostructured PVD-coated tools in turning. International Journal of Advanced Manufacturing Technology, 2014, 73, 1119-1132.	1.5	34
110	Parametric Optimization and Effect of Nano-Graphene Mixed Dielectric Fluid on Performance of Wire Electrical Discharge Machining Process of Ni55.8Ti Shape Memory Alloy. Materials, 2021, 14, 2533.	1.3	34
111	The CAM as the centre of gravity of the five-axis high speed milling of complex parts. International Journal of Production Research, 2005, 43, 1983-1999.	4.9	33
112	Thermal model with phase change for process parameter determination in laser surface processing. Physics Procedia, 2010, 5, 395-403.	1.2	33
113	Stability lobes for general turning operations with slender tools in the tangential direction. International Journal of Machine Tools and Manufacture, 2013, 67, 35-44.	6.2	33
114	A new hybrid process combining machining and selective laser melting to manufacture an advanced concept of conformal cooling channels for plastic injection molds. International Journal of Advanced Manufacturing Technology, 2021, 113, 1561-1576.	1.5	33
115	Electrical discharge truing of metal-bonded CBN wheels using single-point electrode. International Journal of Machine Tools and Manufacture, 2008, 48, 362-370.	6.2	32
116	Wear of Form Taps in Threading of Steel Cold Forged Parts. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	1.3	32
117	Grinding of Gamma TiAl Intermetallic Alloys. Procedia Engineering, 2013, 63, 489-498.	1.2	31
118	Inspection scheduling based on reliability updating of gas turbine welded structures. Advances in Mechanical Engineering, 2019, 11, 168781401881928.	0.8	31
119	Experimental Study of the Slot Overlapping and Tool Path Variation Effect in Abrasive Waterjet Milling. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	30
120	Biomachining: metal etching <i>via</i> microorganisms. Critical Reviews in Biotechnology, 2017, 37, 323-332.	5.1	30
121	A New Approach in the Design of Microstructured Ultralight Components to Achieve Maximum Functional Performance. Materials, 2021, 14, 1588.	1.3	30
122	Advanced Cutting Tools. , 2011, , 33-86.		29
123	PVD coatings for thread tapping of austempered ductile iron. International Journal of Advanced Manufacturing Technology, 2017, 91, 2663-2672.	1.5	29
124	Prediction Methods and Experimental Techniques for Chatter Avoidance in Turning Systems: A Review. Applied Sciences (Switzerland), 2019, 9, 4718.	1.3	29
125	Tool wear monitoring of high-speed broaching process with carbide tools to reduce production errors. Mechanical Systems and Signal Processing, 2022, 172, 109003.	4.4	29
126	Analysis of the electro discharge dressing (EDD) process of large-grit size cBN grinding wheels. International Journal of Advanced Manufacturing Technology, 2006, 29, 688-694.	1.5	28

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127	Mechanistic model for drills with double point-angle edges. International Journal of Advanced Manufacturing Technology, 2009, 40, 447-457.	1.5	28
128	Cryogenic Hard Turning of ASP23 Steel Using Carbon Dioxide. Procedia Engineering, 2015, 132, 486-491.	1.2	28
129	Manufacturing Processes of Integral Blade Rotors for Turbomachinery, Processes and New Approaches. Applied Sciences (Switzerland), 2020, 10, 3063.	1.3	27
130	Machining Stresses and Initial Geometry on Bulk Residual Stresses Characterization by On-Machine Layer Removal. Materials, 2020, 13, 1445.	1.3	27
131	New advances in copper biomachining by iron-oxidizing bacteria. Corrosion Science, 2016, 112, 385-392.	3.0	26
132	Process performance and life cycle assessment of friction drilling on dual-phase steel. Journal of Cleaner Production, 2019, 213, 1147-1156.	4.6	26
133	Dimensional accuracy optimisation of multi-stage planetary EDM. International Journal of Machine Tools and Manufacture, 2002, 42, 1643-1648.	6.2	25
134	Cutting force integration at the CAM stage in the high-speed milling of complex surfaces. International Journal of Computer Integrated Manufacturing, 2005, 18, 586-600.	2.9	25
135	Optimal Parameters for 5-axis Laser Cladding. Procedia Engineering, 2013, 63, 45-52.	1.2	25
136	Semi-Active Magnetorheological Damper Device for Chatter Mitigation during Milling of Thin-Floor Components. Applied Sciences (Switzerland), 2020, 10, 5313.	1.3	25
137	Surface Roughness Improvement Using Laser-Polishing Techniques. Materials Science Forum, 2006, 526, 217-222.	0.3	24
138	Large Spiral Bevel Gears on Universal 5-axis Milling Machines: A Complete Process. Procedia Engineering, 2015, 132, 397-404.	1.2	24
139	Stability and vibrational behaviour in turning processes with low rotational speeds. International Journal of Advanced Manufacturing Technology, 2015, 80, 871-885.	1.5	24
140	Stability contour maps with barrel cutters considering the tool orientation. International Journal of Advanced Manufacturing Technology, 2017, 89, 2491-2501.	1.5	24
141	Laser polishing parameter optimisation on selective laser sintered parts. International Journal of Machining and Machinability of Materials, 2010, 8, 417.	0.1	23
142	Maximal reduction of steps for iron casting one-of-a-kind parts. Journal of Cleaner Production, 2012, 24, 48-55.	4.6	23
143	Data-mining modeling for the prediction of wear on forming-taps in the threading of steel components. Journal of Computational Design and Engineering, 2016, 3, 337-348.	1.5	23
144	Improved predictions of the stability lobes for milling cutting operations of thin-wall components by considering ultra-miniature accelerometer mass effects. International Journal of Advanced Manufacturing Technology, 2016, 86, 2139-2146.	1.5	23

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145	Surface roughness prediction with new barrel-shape mills considering runout: Modelling and validation. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108670.	2.5	23
146	Simulation of Cryo-cooling to Improve Super Alloys Cutting Tools. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 73-82.	2.7	23
147	Turning of Thick Thermal Spray Coatings. Journal of Thermal Spray Technology, 2001, 10, 249-254.	1.6	22
148	Study of the performance of the turning and drilling of austenitic stainless steels using two coolant techniques. International Journal of Machining and Machinability of Materials, 2008, 3, 1.	0.1	22
149	Improving Stability Prediction in Peripheral Milling of Al7075T6. Applied Sciences (Switzerland), 2018, 8, 1316.	1.3	22
150	Identification of Key Performance Indicators in Project-Based Organisations through the Lean Approach. Sustainability, 2020, 12, 5977.	1.6	22
151	Use of Magnetorheological Fluids for Vibration Reduction on the Milling of Thin Floor Parts. Procedia Engineering, 2013, 63, 835-842.	1.2	21
152	A Reliable Turning Process by the Early Use of a Deep Simulation Model at Several Manufacturing Stages. Machines, 2017, 5, 15.	1.2	21
153	Spiral Bevel Gears Face Roughness Prediction Produced by CNC End Milling Centers. Materials, 2018, 11, 1301.	1.3	21
154	On the Cutting Performance of Segmented Diamond Blades when Dry-Cutting Concrete. Materials, 2018, 11, 264.	1.3	21
155	Comparison of Flank Super Abrasive Machining vs. Flank Milling on Inconel 718 Surfaces. Materials, 2018, 11, 1638.	1.3	20
156	TRLs 57 Advanced Manufacturing Centres, Practical Model to Boost Technology Transfer in Manufacturing. Sustainability, 2019, 11, 4890.	1.6	20
157	Flank-Milling of Integral Blade Rotors Made in Ti6Al4V Using Cryo CO2 and Minimum Quantity Lubrication. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	1.3	20
158	Tool Wear Analysis during Ultrasonic Assisted Turning of Nimonic-90 under Dry and Wet Conditions. Metals, 2021, 11, 1253.	1.0	20
159	In pursuit of sustainable cutting fluid strategy for machining Ti-6Al-4V using life cycle analysis. Sustainable Materials and Technologies, 2021, 29, e00301.	1.7	20
160	Monitoring deep twist drilling for a rapid manufacturing of light high-strength parts. Mechanical Systems and Signal Processing, 2011, 25, 2745-2752.	4.4	19
161	Method for measuring thermal distortion in large machine tools by means of laser multilateration. International Journal of Advanced Manufacturing Technology, 2015, 80, 523-534.	1.5	19
162	Turning of Austempered Ductile Iron with ceramic tools. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 484-493.	1.5	19

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163	Laser polishing techniques for roughness improvement on metallic surfaces. International Journal of Nanomanufacturing, 2007, 1, 490.	0.3	18
164	Geometric Modelling of Added Layers by Coaxial Laser Cladding. Physics Procedia, 2012, 39, 913-920.	1.2	18
165	A Consistent Procedure Using Response Surface Methodology to Identify Stiffness Properties of Connections in Machine Tools. Materials, 2018, 11, 1220.	1.3	18
166	MoniThor: A complete monitoring tool for machining data acquisition based on FPGA programming. SoftwareX, 2020, 11, 100387.	1.2	18
167	Multi-Response Optimization of Abrasive Waterjet Machining of Ti6Al4V Using Integrated Approach of Utilized Heat Transfer Search Algorithm and RSM. Materials, 2021, 14, 7746.	1.3	18
168	Hybrid manufacturing of complex components: Full methodology including laser metal deposition (LMD) module development, cladding geometry estimation and case study validation. Mechanical Systems and Signal Processing, 2022, 179, 109337.	4.4	18
169	Accuracy and Surface Quality Improvements in the Manufacturing of Ti-6Al-4V Parts Using Hot Single Point Incremental Forming. Metals, 2019, 9, 697.	1.0	17
170	Investigation of Thermal-Related Effects in Hot SPIF of Ti-6Al-4V Alloy. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 299-317.	2.7	17
171	Cutting edge control by monitoring the tapping torque of new and resharpended tapping tools in Inconel 718. International Journal of Advanced Manufacturing Technology, 2020, 106, 3799-3808.	1.5	17
172	5-axis double-flank CNC machining of spiral bevel gears via custom-shaped tools-Part II: physical validations and experiments. International Journal of Advanced Manufacturing Technology, 2022, 119, 1647-1658.	1.5	17
173	Reliable Manufacturing Process in Turbine Blisks and Compressors. Procedia Engineering, 2013, 63, 60-66.	1.2	16
174	Elimination of surface spiral pattern on brake discs. Journal of Zhejiang University: Science A, 2014, 15, 53-60.	1.3	16
175	Turn-milling of blades in turning centres and multitasking machines controlling tool tilt angle. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 1324-1336.	1.5	16
176	Machine Tool Performance and Precision. , 2009, , 219-260.		16
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